

**Figure 15. Nucleotide Sequence for CG106318-01.**

CG106318-01 4810 nt

GTCCATTGGGGCCGATGTATGGGAGATGAATGTGGTCCCCGGAGGCATCCAAACGAGGGGTG  
TGTGGTGTGCTCATGTGTGGAGGATGGACTACACTGCATCACTAACTGTGAAGCAGGCCGAGA  
GACCCAATAACCAGCAGAAATTGTTTCAAAGTTTGCGATTGGCACAAAGAGTTGTACGACT  
GGAGACTGGGACCTTGGAAATCAGTGTACGCCCGTGATTTCAAAAAGGCTAGAGAAACCTC  
TTGAGTGCATTAAAGGGGAAGAAGTATTTCAGTGGAGGAGATAGCGTGCATCCAGAAAG  
ACAAAGACATTTCTGCGGAGGATATCATCTGTGAGTACTTTGAGCCCAAGCCTCTCCTGG  
AGCAGGCTTGCCTCATTCTTGGCCAGCAAGATTGCATCGTGTCTGAATTTTCTGCCTGGT  
CCGAATGCTCCAAGACTCGGCCAGCGGGCTCCAGCACCGGACGCGTCATGTGGTGGCGC  
CCCCGAGTTTCGGAGGCTCTGGCTGTCCAAACCTGACGGAGGTTCCAGGTGTGCCAATCCA  
GTCCATGCGAGGCCGAGGAGCTCAGGTACAGCCTGCATGTGGGGCCCTGGAGCACCTGCT  
CAATGCCCACTCCCGACAAGATAAGACAAGCAAGAGACGCGGGAAGAATAAAGACAGGG  
AAAGGACCGCAGCAAGGAGTAAGGATCCAGAAGCCCGCAGCTTATTAAAGAAAAAGA  
GAAACAGAAACAGGCAGAACAGACAAGAGAACAATATTGGACATCCAGATTGGATATC  
AGACCAGAGAGGTTATGTGCATTAAACAAGACGGGGAAGCTGCTGATTTAAGCTTTTGCC  
AGCAAGAGAAGCTTCCAATGACCTTCCAGTCTGTGTGATCACCAGAAAGAGTGCCAGGTTT  
CCGAGTGGTCAGAGTGGAGCCCTGCTCAAAAACATGCCATGACATGGTGTCCCCTGCAG  
GCATCGTGTGAAGGACAGCAACCATCAGGCAGTTTCCCATTTGGGAGTGAAAGGAAGTGTG  
CAGAATTTGAAGAAAAAGCCCTGTTTGTCTCAAGGAGTGGAGTTGTCCCCTGTGCCA  
CGTATGGCTGGAGAACTACAGAGTGGACTGAGTGCCGTGTGGACCCTTTGCTCAGTCAGC  
AGGACAAGAGGCGCGGCAACCAGACGGCCCTCTGTGGAGGGGGGCTCCAGACCCGAGAGG  
TGTAAGTGGTGCAGGCCAACGAAACCTCTCTCAAAATTAAGTACCCACAAGAACAAAG  
AAGCTCAAAGCCAAATGGACTTAAATTTGCACTGACCTATCCCTAATACTACAGC  
TGTGCCACATTCCTGTCCAACCTGAATGTGAAGTTTCACTTGGTCAGCTTGGGAGCCTT  
GTACTTTGAAAACTGTAATGATCAGCAAGGAAAAAGGCTTCAAACTGAGGAAGCGGC  
GCATTACCAATGAGCCCATGGAGGCTCTGGGTAAACCGGAACTGCCCTCACTTACTGG  
AAGCCATTCCTGTGAAGAGCCTGCCTGTTATGACTGAAAGCGGTGAGACTGGGAGACT  
CGCAGCCAGATAACGGAAGGAGTGTGGTCCAGGCACGCAAGTTCAAGAGGTTGTGTGCA  
TCAACAGTAGTAGGAGAAGAGTTGACAGCAGCTGTGCAAGATGCCATCTTCCCCCATC  
CTGTGGCCTGTGATGCCCCATGCCGAAAGACTGTGTGCTCAGCACATGGTCTACGTGGT  
CCTCCTGCTCACACACCTGCTCAGGGAAAAACGACAGAAGGAAACAGATACGAGCAGAT  
CCATTCTGGCCTATCGGGTGAAGAAGGTGGAATTCGTGTCCAATAGCAGTGCTTTGG  
AAGAAGTACGAAGCTGTAATGAGCATCCTTGACAGTGTACCAGTGGCAAACCTGGTCCCT  
GGGGCCAGTGCATTGAGGACACCTCAGTATCGTCCTTCAACACAACATCAGCATTTGGAATG  
GGGAGGCCCTCTGCTCTGTGCGCATGCAGACAAGAAAGTCTATGTGTGCGAGTCAATG  
TGGGCCAAGTGGGACCCAAAAAATGTCTGAAAGCCTTCGACCTGAAACTGTAAAGCCTT  
GTCTGCTTCTTGTGAAGAAGGACTGTATTGTGACCCCATATAGTGAAGTGCACATGATGCC  
CCTCTCTGTGTAAGGAAGGGGACTCCAGTATCAGGAAGCAGTCTAGGCATCGGGTCATCA  
TTCAGCTGCCAGCCAAACGGGGGCCGAGACTGCACAGATCCCTCTATGAAGAGAAGGCCT  
GTGAGGCACCTCAAGCGTGCCAAAGCTACAGGTGGAAGACTCACAAATGGCGCAGATGCC  
AATTAGTCCCTTGGAGCGTGAACCAAGACAGCCCTGGAGCAGCAAGAGGCTGTGGGCCGTG  
GGCGACAGGCAAGAGCCATTACTTGTGCAAGCAAGATGGAGGACAGGCTGGAATCCATG  
AGTGCCACAGTATGCAGGCCCTGTGCCAGCCCTTACCCAGGCCCTGCCAGATCCCCTGCC  
AGGATAGCTGCAATTGACCAGCTGTCCAAGTTTCTGTGCAATGGAGACTGTGGTG  
CAGTTGAGCACCAGAAGCGCAGCTTTGTTGAAAAAGTAAAAAGAAGGAAAAATGTAA  
ATTCCATTTGTATCCCCCTGATTGAGACTCAGTATTGCTTGTGACAAATATAATGCAC  
AACCTGTGGGGAACCTGGTCAGACTGATTTTACCAGAGGGAAAAAGTGAAGAGTTGTCTGG  
GAATGAAGGTACAAGGAGACATCAAGGAATCGGCAAGGGATATCGTTACCAAGCAATGG  
CATGCTACGATCAAAATGGCAGGCTTGTGGAACATCTAGATGTAACAGCCATGTTTACA  
TTGAGGAGGCCTGCATCATCCCCTGCCCTCAGACTGCAAGCTCAGTGAGTGCTTCAACT  
GGTCCGCGCTGCAGCAAGTCTCTGTGGGAGTGGTGTGAAGTTCTGTTCTAAATGGTCCGTG  
AAAAACCATATAATGGAGGAAGGCCTTGCCCAAACCTGACCATGTCAACAGGCACAGG  
TGATGAGGTTGTCCCATGCCACAGTGAAGTGAACAGTACCTATGGGTCACAGAGCCCT  
GGAGCTGCTGAAGGTGACCTTGTGAATATCGGGGAAGCTGTGGAGAGGCTGTGCAAGTGC  
CCGAAAAAGTGAGATGCATGCAGAAATACAGCAGATGGCCCTTGTGAACATGTAGAGGAT  
ACCTCTGTGACCCAGAAGAGATGCCCTTGGGCTCTAGAGTGTGCAAAATTACCATGCCCTG  
AGGACTGTGTGATATCTGAATGGGGTCCATGGACCAATGTGTTTTGCCCTGCAATCAAA  
GCAGTTTCCGCGAAAGGTGCTGAGTATCCCATCAGACAACCAAGCTGATGAAGGAAGACTCTT  
GCCCTAATGCTGTTGAGAAAGAACCTGTAACTGAACAAAAACTGTACCACATGATT  
ATAATGAACAGACTGGAGTACATGTCAGCTGAGTGAGAAGGCAAGTTGTGGAATGGAA  
TAAAAACAAGGATGTTGGATTGTGTTGCAAGTGTGCAAGTCAAGTTCAGTCAAGTAAAT  
GTGAAGCGCTTGGCTTGGAGAAGAACTGGCAGATGCAACAGCTCCCTGCATGGTGGAAATGCC

CTGTGAACTGTCAGCTTTCTGATTGGTCTCCTTGGTCAGAATGTTCTCAAACATGTGGCC  
 TCACAGGAAAAATGATCCGAAGACGAACAGTGACCCAGCCCTTTCAAGGTGATGGAAGAC  
 CATGCCCTTCCCTGATGGACCAAGTCCAAACCCTGCCAGTGAAGCCTTGTATCGGTGGC  
 AATATGGCCAGTGGTCTCCATGCCAAGTGCAGGAGGCCCAAGTGTGGAGAAGGGACCAGAA  
 CAAGGAACATTTCTTGTGTAGTAAGTGATGGGTGAGCTGATGATTCAGCAAAGTGGTGG  
 ATGAGGAATTCTGTGCTGACATTGAACTCATTATAGATGGTAATAAAAAATATGGTCTGG  
 AGGAATCCTGCAGCCAGCCTTGGCCAGGTGACTGTTATTTGAAGGACTGGTCTTCTGGA  
 GCCTGTGTGACCTGTGTGAATGGTGAGGATCTAGGCTTTGGTGGAATACAGGTCA  
 GATCCAGACCGGTGATTATACAAGAACTAGAGAATCAGCATCTGTGCCCAGAGCAGATGT  
 TAGAAACAAAATCATGTTATGATGGACAGTGCTATGAATATAAATGGATGGCCAGTGCTT  
 GGAAGGGCTCTTCCCGAACAGTGTGGTGTCAAAGGTGAGATGGTATAAATGTAAACAGGGG  
 GCTGCTTGGTGTGATGAGCCAGCCTGATGCCGACAGGTCTTGTAAACCCACCGTGTAGTCAAC  
 CCCACTCGTACTGTAGCGAGACAAAAACATGCCATTGTGAAGAAGGGTACACTGAAGTCA  
 TGTCTTCTAACAGCACCTTGAGCAATGCACACTTATCCCGTGGTGGTATTACCCACCA  
 TGGAGGACAAAAGAGGAGATGTGAAAACAGTCGGGCTGTACATCCAACCCAACCCTCCA  
 GTAACCCAGCAGGACGGGGAAGGACCTGGTTTCTACAGCCATTTGGGCCAGATGGGAGAC  
 TAAAGACCTGGGTTTACGGTGTAGCAGCTGGGGCATTGTGTTACTCATCTTTATTGTCT  
 CCATGATTTATAGCTTGCAAAAAGCCAAAGAAACCCCAAGAAAGGCAAAAACAACCGAC  
 TGAACCTTTAACCTTAGCCTATGATGGAGATGCCGACATGTAACATATAACTTTTCCTG  
 GCAACAACCA (SEQ ID NO: 40)

Protein Sequence for CG106318-01 ORF Start: 18 ORF Stop: 4782 Frame: 3

Protein Sequence:

>CG106318-01-prot 1588 aa  
 MGDECGPGGIQTRAVVCAHVEGWTTLHTNCKQAERPNNQQNCFKVCDDWHKELYDWRGLGPW  
 NQCQPVISKLEKPLECIKGEEGIQVREIACIQKDKDIPAEDIICEYFEPKPLLEQACLI  
 PCQQDCIVSEFSWSECSKTCGSLQHRTRHVAPPQFGGSGCPNLTEFQVCQSSPCEAE  
 ELRYSLHVGWSTCSMPHSRQVRQARRRGKNKEREKDRSKGVKDPARELIKKRNRNRQ  
 NRQENKYWDIQIGYQTRVMCINKTGKAADLSFCQKEKLPMTFQSCVITKECQVSEWSEW  
 SPCSKTCHDMVSPAGTRVTRTIRQFPIGSEKECPEFEEKEPCLSQGDGVVPCATYGWRT  
 TEWTECRVDPLLSQQDKRRGNQALCGGGIQTREYCVQANENLLSQLSTHKNKEASKPM  
 DLKLCTGPIPNNTQLCHIPCTECEVSPWSAWGPCTYENCNDQQGKKGFKLRRITNEP  
 TGGSGVTGNCPLLEAIPCEEPACYDVKAVRLGDCEPDNGKECGPGTQVQEVVINSDDGE  
 EVDRQLCRDAIFPIPVACDAPCPKDCVLSTWSTWSSCSHTCSGKTTEGKQIRARSILAYA  
 GEEGGIRCPNSSLQEVRSCHNEPCTVYHWQTGPWGQCIEDTSVSSFNTTTTWNGEASCS  
 VGMQTRKVICVRVNVGQVGPKKCPESLRPETVRPCLLPCKKDCIVTPYSDWTSPPSSCKE  
 GDSSIRKQSRHRVILPANGGRDCTDPLYEEKACEAPQACQSYRWKTHKWRRCLVPWS  
 VQQDSPGAQEGCGPGRQARAITCRKODGGQAGIHECLQYAGVPALTQACQIPCQDDCQL  
 TSWSKFSSCNGDCGAVRTRKRTLVGKSKKKECKNSHLYPLIETQYCPCKDYNAQPVGNW  
 SDCILPEGKVEVLLGMKVQGGDIKECGQYRYQAMACYDQNGRLVETSRCSHGYIEEACI  
 IPCPSDCKLSEWSNWSRCSKSCGSGVKVRKWLREKPYNGGRPCPKLDHVNQAQVYEVVP  
 CHSDCNQYLWVTEPWSICKVTFVNMRENCGEVQTRKVRMCQNTADGPSEHVEDYLCDE  
 EMPLKTSRVCKLPCPEDCVISEWGPWTQCVLPCNQSSFRQRSADPIRQPADEGRSCPNAVE  
 KEPCNLNKNKYHYDYNVDWSTCQLSEKAVCGNGIKTRMLDCVRSDDGKSVDLKYCEALGL  
 EKNWQMNTSCMVECPVNCQLSDWSPWSECSQTCGLTGKMIERRRTVTQPFQGDGRPCPSLM  
 DQSKPCPVKPCYRWQYQWSPCQVQEAQCGEGTRTRNISCVVSDGSADDFSKVVDEEFCA  
 DIEIIDGNKNMVLSESCSQPCPGDCYLKDWSSWSLCQLTCVNGEDLFGGGIQRVSRPVI  
 IQELENQHLCPQMLETKSCYDGCYQYKWMASAWKGSSRTVWCQRSDGINVTGGCLVMS  
 QPDADRSCNPPCSQPHSYCSETKTCHCEEYTEVMSSNSTLEQCTLIPVVVLPTMEDKRG  
 DVKTSRAVHPTQPSNPAGRGRTWFLQPFQPDGRLKTWVYGVAAGAFVLLIFIVSMIYLA  
 CKKPKKPQRRQNNRLKPLTLAYDGDADM (SEQ ID NO: 41)

**Figure 16. Nucleotide and Protein Sequences for CG50817-04.**

>CG50817-04 1447 nt

CGGGACACCACTGATGCTCCTGGGACCCTACGCAATCTGCGCCTGCGTCTCATCAGTCGC  
 CCCACATGTAAGTATCTACAACCAGCTGCACCAGCGACACCTGTCCAACCCGGCCCGG  
 CCTGGGATGCTATGTGGGGGCCCCAGCCTGGGGTGCAGGGCCCTGTCAGGTCTGATAG  
 GGAGAAGAGAAGGAGCAGAAGGGGAGGGGCCAACCCTGGGCTGGGGGTTGGAATCACAG  
 GACTGGGGGAAAGAGCTGCAATCAGAGGGTGTCTGCCATAGCTGGGCTCAGGCATCTGTC  
 CTTGGCTTTGTTGCCTGGCTCCAGGGAGATTCCGGGGGCCCTGTGCTGTGCCTCGAGCCT  
 GACGGACACTGGGTTCAAGCTGGCATCATCAGCTTTGCATCAAGCTGTGCCAGGAGGAC  
 GCTCCTGTGCTGCTGACCAACACAGCTGCTCACAGTTCCTGGCTGCAGGCTCGAGTTCAG  
 GGGGCAGCTTTCTGGCCAGAGCCCAGAGACCCCGAGATGAGTGATGAGGACAGCTGT  
 GTAGCCTGTGGATCCTTGAGGACAGCAGGTCCCCAGGCAGGAGCACCTCCCCATGCCCC  
 TGGGAGGCCAGGCTGATGCACCAGGGACAGCTGGCCTGTGGCGGAGCCCTGGTGTGAGAG  
 GAGGCGGTGCTAACTGCTGCCCAGTTCATTGGGCGCCAGGCCCCAGAGGAATGGAGC  
 GTAGGGCTGGGGACCAGACCGGAGGAGTGGGGCCTGAAGCAGCTCATCCTGCATGGAGCC  
 TACACCCACCCTGAGGGGGGCTACGACATGGCCCTCCTGCTGCTGGCCCAGCCTGTGACA  
 CTGGGAGCCAGCCTGCGGCCCTCTGCCTGCCCTATGCTGACCACCACCTGCCTGATGGG  
 GAGCGTGGCTGGGTTCTGGGACGGGCCCCAGGAGCAGGCATCAGCTCCCTCCAGACA  
 GTGCCCGTGACCCTCCTGGGGCCTAGGGCCTGCAGCCGGCTGCATGCAGCTCCTGGGGGT  
 GATGGCAGCCCTATTCTGCCGGGGATGGTGTGTACAGTGCTGTGGGTGAGCTGCCAGC  
 TGTGAGGCCAACCAACCAGCTGCTGACAGGGGACCTGGCCATTCTCAGGAACAAGAGAAT  
 GCAGGCAGGCCAATGGCATTACTGCCCTGTCTCCCCACCCTGTCATGTGTGATTCCAG  
 GCACCAGGGCAGGCCCAGAAGCCAGCAGCTGTGGGAAGGAACCTGCCTGGGGCCACAGG  
 TGCCCACTCCCCACCCTGCAGGACAGGGGTGTCTGTGGACACTCCACACCCAACTCTGC  
 TACCAAGCAGGCGTCTCAGCTTTCCTCCTCTTTACCTTTTACAGATACAATCACGCCAGC  
 CACGTTGTTTTGAAAATTTCTTTTTTGGGGGGCAGCAGTTTCTTTTTTAACTTAA  
 ATAAATT (SEQ ID NO:42)

**Protein Sequence for CG50817-04 ORF Start: 520 ORF Stop: 1192 Frame: 1**

Protein Sequence:

>CG50817-04-prot 224 aa

MSDEDSVCVACGSLRTAGPQAGAPSPWPWEARLMHQQLACGGALVSEEAVLTAHCFIGR  
 QAPEEWSVGLGTRPEEWGLKQLILHGAYTHPEGGYDMALLLAQPVTLGASLRPLCLPYA  
 DHHLDPDGERGWVLRARPGAGISLQTPVTLGPRACSRHAAPGGDGSPILPGMVCTS  
 AVGELPSCEANQPAADRGPGHSQEENAGRQMAALLPLSSPPCHV (SEQ ID NO:43)

**Figure 17. Nucleotide and Protein Sequences for CG50817-05.**

**. Nucleotide sequence encoding the Peptidase-like protein of the invention.**

>CG50817-05

CGCTGGGCCTCTGTCCTGATGCTGCTGAGCTCCCTGGTGTCTCTCGCTGGTTCTGTCTAC 60  
 CTGGCCTGGATCCTGTTCTTCGTGCTCTATGATTTCTGCATTGTTGTATCACCACCTAT 120  
 GCTATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAACCCAGGGCCAA 180

CCCAAGCCTCAGGAGGGCAACACAGTCCCTGGCGAGTGGCCCTGGCAGGCCAGTGTGAGG 240  
 AGGCAAGGAGCCACATCTGCAGCGGCTCCCTGGTGGCAGACACCTGGGTCCTCACTGCT 300  
 GCCCACTGCTTTGAAAAGGCAGCAGCAACAGAAGTGAATTCCTGCGTGAGGGACTCAGCC 360  
 CCTGGGGCCGAAGAGGTGGGGGTGGCTGCCCTGCAGTTGCCCAGGGCCTATAACCACTAC 420  
 AGCCAGGGCTCAGACCTGGCCCTGCTGCAGCTCGCCACCCACGACCCACACACCCCTC 480  
 TGCCTGCCCCAGCCCGCCCATCGCTTCCCCTTTGGAGCCTCCTGCTGGGCCACTGGCTGG 540  
 GATCAGGACACCAGTGATGCTCCTGGGACCCTACGCAATCTGCGCCTGCGTCTCATCAGT 600  
 CGCCCCACATGTAAGTGTATCTACAACCAGCTGCACCAGCGACACCTGTCCAACCCGGCC 660  
 CGGCCTGGGATGCTATGTGGGGGCCCCAGCCTGGGGTGCAGGGCCCCCTGTCAGGGAGAT 720  
 TCCGGGGGCCCTGTGCTGTGCTCGAGCCTGACGGACACTGGGTTTCAGGCTGGCATCATC 780  
 AGCTTTGCATCAAGCTGTGCCCAGGAGGACGCTCCTGTGCTGCTGACCAACACAGCTGCT 840  
 CACAGTTCTGCTGCAGGCTCGAGTTTCAGGGGGCAGCTTTCCTGGCCCAGAGCCCAGAG 900  
 ACCCCGAGATGAGTGATGAGGACAGCTGTGTAGCCTGTGGATCCTTGAGGACAGCAGGT 960  
 CCCCAGGCAGGAGCACCCCTCCCCATGGCCCTGGGAGGCCAGGCTGATGCACCAGGGACAG 1020  
 CTGGCCTGTGGCGGAGCCCTGGTGTGAGAGGAGGCGGTGCTAACTGCTGCCCACTGCTTC 1080  
 ATTGGGCGCCAGGCCCCAGAGGAATGGAGCGTAGGGCTGGGGACCAGACCCGAGGAGTGG 1140  
 GGCCTGAAGCAGCTCATCCTGCATGGAGCCTACACCCACCCTGAGGGGGGCTACGACATG 1200  
 GCCCTCCTGCTGCTGGCCCAGCCTGTGACACTGGGAGCCAGCCTGCGGCCCTCTGCCTG 1260  
 CCCTATGCTGACCAACACCTGCCTGATGGGGAGCGTGGCTGGGTTCTGGGACGGGCCCGC 1320  
 CCAGGAGCAGGCATCAGCTCCCTCCAGACAGTGCCCGTGACCCCTCCTGGGGCCTAGGGCC 1380  
 TGCAGCCGGCTGCATGCAGCTCCTGGGGGTGATGGCAGCCCTATTCTGCCGGGGATGGTG 1440  
 TGTACCAAGTGCTGTGGGTGAGCTGCCAGCTGTGAGGCCAACCAACCAGCTGCTGACAGG 1500  
 GGACCTGGCCATTCTCAGGAACAAGAGAATGCAGGCAGGCAAATGGCATTACTGCCCTG 1560  
 TCCTCCCCACCCTGTCATGTGTGATTCCAGGC 1592  
 (SEQ ID NO:44)

**Protein sequence encoded by the coding sequence shown above.**

>CG50817-05  
 MLLSSLVSLAGSVYLAWILFFVLYDFCIVCITYAINVSLMWLSFRKVQEPQGQPKPQEG 60  
 NTVPGIEWPWQASVRRQGAHICSGSLVADTWVLTAAHCFEKAATELNSCVRDSAPGAEEV 120  
 GVAALQLPRAYNHYSQGSDDLALLQLAHPHTHTPLCLPQPAHRFPFGASCWATGWDQDTS 180  
 APGTLRLRLRLISRPTCNCIYNQLHQRHLSNPARPGMLCGGPQPGVQGPCQGDSSGGPVL 240  
 CLEPDGHVWQAGIIFASSCAQEDAPVLLTNTAAHSSWLQARVQGAFLAQSPETPEMSD 300  
 EDSCVACGSLRTAGPQAGAPSPWPWEARLMHQQLACGGALVSEEAVLTAHCFIGRQAP 360  
 EEWSVGLGTRPEEWGLKQLILHGAYTHPEGGYDMALLLLAQPVTLGASLRPLCLPYADHH 420  
 LPDGERGWVLGRARPGAGISSLQTVPTLLGPRACSRSLHAAPGGDGSPLPGMVCTSAVG 480  
 ELPSCEANQPAADRPGHSGEQENAGRQMALPLSSPPCHV 521  
 (SEQ ID NO:45)

**Figure 18. Nucleotide and Protein Sequences for CG50817-06.**

**Nucleotide sequence encoding the Peptidase-like protein of the invention.**

>CG50817-06  
 AGCGACACCTGTCCAACCCGGCCCCGGCCTGGGATGCTATGTGGGGGCCCCAGCCTGGGG 60  
 TGCAGGGCCCCTGTGAGGGAGATTCCGGGGGGCCCTGTGCTGTGCCTCGAGCCTGACGGAC 120  
 ACTGGGTTTCAGGCTGGCATCATCAGCTTTGCATCAAGCTGTGCCCAGGAGGACGCTCCTG 180  
 TGCTGCTGACCAACACAGCTGCTCACAGTTCTGGCTGCAGGCTCGAGTTTCAGGGGGCAG 240  
 CTTTCCTGGCCCAGAGCCCAGAGACCCCGGAGATGAGTGATGAGGACAGCTGTGTAGCCT 300  
 GTGGATCCTTGAGGACAGCAGGTCCCCAGGCAGGAGCACCCCTCCCCATGGCCCTGGGAGG 360  
 CCAGGCTGATGCACCAGGGACAGCTGGCCTGTGGCGGAGCCCTGGTGTGAGAGGAGGCGG 420  
 TGCTAACTGCTGCCCCTGCTTCATTGGGCGCCAGGCCCCAGAGGAATGGAGCGTAGGGC 480  
 TGGGGACCAGACCGGAGGAGTGGGGCCTGAAGCAGCTCATCCTGCATGGAGCCTACACCC 540  
 ACCCTGAGGGGGGGCTACGACATGGCCCTCCTGCTGCTGGCCCAGCCTGTGACACTGGGAG 600  
 CCAGCCTGCGGGCCCCCTGCTGCTGCCCTATGCTGACCACACCTGCCTGATGGGGAGCGTG 660  
 GCTGGGTTCTGGGACGGGGCCCCAGGAGCAGGCATCAGCTCCCTCCAGACAGTGCCCCG 720  
 TGACCCTCCTGGGGCCTAGGGCCTGCAGCCGGCTGCATGCAGCTCCTGGGGGTGATGGCA 780  
 GCCCTATTCTGCCGGGGATGGTGTGTACCAAGTGTGTGGGTGAGCTGCCCAGCTGTGAGG 840  
 CCAACCAACCAGCTGCTGACAGGGGACCTGGCCATTCTCAGGAACAAGAGAATGCAGGCA 900  
 GGCAAATGGCATTACTGCCCTGTCTCCCCACCCTGTCATGTGTGATTCCAGGCACCAAG 960

GGCAGGCCCCAGAAGCCCAGCAGCTGTGGGAAGGAACCTGCCTGGGGCCACAGGTGCCAC 1020  
TCCCCACCTGCAGGACAGGGGTGTCTGTGGACACTCCCACACCCAACCTCTGCTACCAAG 1080  
CAGGCGTCTCAGCTTTCCTCCTCCTTTACCCCTTTCAGATACAATCACGCCAGCCACGTTG 1140  
TTTTGAAAATTTCTTTTTTTGGGGGCGCAGAGTTTTCTTTTTTTAAACTTAAATAAATT 1200  
 (SEQ ID NO:46)

**Protein sequence encoded by the coding sequence shown above.**

>CG50817-06  
 MLCGGPQPGVQGPCQGDSSGGPVLCLEPDGHWVQAGIISFASSCAQEDAPVLLNTAAHSS 60  
 WLQARVQGAFLAQSPETPEMSDESDCVACGSLRTAGPQAGAPSPWPWEARLMHQGQLAC 120  
 GGALVSEEAVLTAHCFIGRQAPEEWSVGLGTRPEEWGLKQLILHGAYTHPEGGYDMALL 180  
 LLAQPVTLGASLRPLCLPYADHHLDPGERGWVLGRARPGAGISSLTQVPVTLGPRACSR 240  
 LHAAPGGDGSPIPGMVCTSAVGELPSCEANQPAADRGPGRHSQEENAGRQMALPLSSP 300  
 PCHV 304  
 (SEQ ID NO:47)

**Figure 19. Nucleotide and Protein Sequences For CG51099-03.**

**Nucleotide sequence encoding the Serine Protease-like protein of the invention.**

>CG51099-03  
 CGGAGAGACGCAGTCCGGCTGCCACCCCGGGATGGGTGCTGGTGCCAGACCGTCGCGCGC 60  
 GGGCAGCGCCCCCGGACGTCCTGCCCCCTCCCGCGCCGGTGCCCTGCTGCTGCTGCTTCTG 120  
 TTGCTGAGGTCTGCAGGTTGCTGGGGCGCAGGGGAAGCCCCGGGGGCGCTGTCCACTGCT 180  
 GATCCCGCCGACCAGAGCGTCCAGTGTGTCCCAAGGCCACCTGTCTTCCAGCCGGCCT 240  
 CGCCTTCTCTGGCAGACCCCGACCCAGACACTGCCCTCGACCACCATGGAGACCCAA 300  
 TTCCCAGTTTCTGAAGGCAAAGTCGACCCATACCGCTCCTGTGGCTTTCTCTACGAGCAG 360  
 GACCCACCCCTCAGGGACCCAGAAGCCGTGGCTCGGCGGTGGCCCTGGATGGTCAGCGTG 420  
 CGGGCCAATGGCACACACATCTGTGCCGGCACCATCATTGCCCTCCAGTGCGGTGCTGACT 480  
 GTGGGCGCACTGCCTGATCTGGCGTGATGTTATCTACTCAGTGAGGGTGGGGAGTCCGTGG 540  
 ATTGACCATGATGACGCAGACCGCCTCCGATGTCCCGTGCTCCAGGTATCATGCATAGC 600  
 AGGTACCGGGGCCAGCGGTTCTGGTCTTGGGTGGGGCCAGGCCAACGACATCGGCCTCCTC 660  
 AAGCTCAAGCAGGAACCTCAAGTACAGCAATTACGTGCGGCCCATCTGCCTGCCTGGCAGC 720  
 GACTATGTGTTGAAGGACCATTCGCGTGCAGTGTGACGGGTGGGGACTTTCCAAGGCT 780  
 GACGGCATGTGGCCTCAGTTCCGGACCATTCAGGAGAAGGAAGTCATCATCTGAACAAC 840  
 AAAGAGTGTGACAATTTCTACCACAACCTTCACCAAAATCCCCACTCTGGTTCAGATCATC 900  
 AAGTCCCAGATGATGTGTGCGGAGGACACCCACAGGGAGAAGTTCTGCTATGAGCTAACT 960  
 GGAGAGCCCTTGGTCTGCTCCATGGAGGGCAGTGGTACCTGGTGGGATTTGGTGAGCTGG 1020  
 GGTGCAGGCTGCCAGAAGAGCGAGGCCCCACCCATCTACCTACAGGTCTCCTCCTACCAA 1080  
 CACTGGATCTGGGACTGCCTCAACGGGCAGGCCCCGGCCCTGCCAGCCCCATCCAGGACC 1140  
 CTGCTCCTGGCACTCCCCTGCCCCCTCAGCCTCCTTGCTGCCCTCTGACTCTGTGTGCC 1200  
TCCCTCACTTGTGA 1214  
 (SEQ ID NO:48)

**Protein sequence encoded by the nucleotide sequence shown above.**

>CG51099-03  
 MGRWCQTVARGQRPRTSAPSRAGALLLLLLLLRSAGCWGAGEAPGALSTADPADQSVQCV 60  
 PKATCPSSRPRLWLQPTTQTLPTTMMETQFPVSEKVDPYRSCGFSYEQDPTLRDPEAV 120  
 ARRWPWMVSVRANGTHICAGTHIASQWVLTVAHCLWRDVIYSVRVGPWIDQMTQTASD 180  
 VPVLQVIMHSRYRAQRFWSWVGQANDIGLLKLKQELKYSNYVRPICLPGTDYVLKDHSC 240  
 VITGWGLSKADGMWPQFRTIQEKEVILNNKECDNFYHNFTKIPTLVQIIKSQMMCAEDT 300

HREKFCYELTGEPLVCSMEGTWYLVGLVSWGAGCQKSEAPPIYLQVSSYQHWIWDCLNGQ 360  
 ALALPAPSRTLLALPLPLSLLAAL 385 (SEQ ID  
 NO:49)

## Figure 20. Nucleotide and Protein Sequences For CG57051-04.

Nucleotide sequence encoding the Angiopoietin-like protein, CG57051-04.

>CG57051-04  
 TGCGGATCCTCACACGACTGTGATCCGATTCTTTCCAGCGGCTTCTGCAACCAAGCGGGT 60  
 CTTACCCCCGGTCTCCGCGTCTCCAGTCTCGCACCTGGAACCCCAACGTCCCCGAGAG 120  
 TCCCCGAATCCCCGCTCCCAGGCTACCTAAGAGGATGAGCGGTGCTCCGACGGCCGGGGC 180  
 AGCCCTGATGCTCTGCGCCGCCACCGCCGTGCTACTGAGCGCTAGATCTGGACCCGTGCA 240  
 GTCCAAGTCGCGCGCTTTGCGTCTGGGACGAGATGAATGTCCTGGCGCACGGACTCCT 300  
 GCAGCTCGGCCAGGGGCTGCGCGAACACGCGGAGCGCACCCGCACTCAGCTGAGCGCGCT 360  
 GGAGCGGCGCCTGAGCGCGTGC GG GTCCGCTGT CAGGGAACCGAGGGGTCCACCGACCT 420  
 CCCGTTAGCCCCCTGAGAGCGGGTGGACCCTGAGGTCCTTCACAGCCTGCAGACACA ACT 480  
 CAAGGCTCAGAACAGCAGGATCCAGCAACTCTTCCACAAGGTGGCCCAGCAGCAGCGGCA 540  
 CCTGGAGAAGCAGCACCTGCGAATTCAGCATCTGCAAAGCCAGTTTGGCCTCCTGGACCA 600  
 CAAGCACCTAGACCATGAGGTGGCCAAGCCTGCCGAAGAAAGAGGCTGCCCGAGATGGC 660  
 CCAGCCAGTTGACCCGGCTCACAATGTCAGCCGCTGCACCGAGGCTGGTGGTTTGGCAC 720  
 CTGCAGCCATTCCAACCTCAACGGCCAGTACTTCCGCTCCATCCACAGCAGCGGCAGAA 780  
 GCTTAAGAAGGGAATCTTCTGGAAGACCTGGCGGGGCGCTACTACCCGCTGCAGGCCAC 840  
 CACCATGTTGATCCAGCCCATGGCAGCAGAGGCAGCCTCCTAGCGTCTCTGGCTGGGCCTG 900  
 GTCCCAGGCCACGAAAGACGGTGACTCTTGGCTCTG 937 (SEQ ID NO:50)

Protein sequence encoded by the nucleotide sequence shown above.

>CG57051-04  
 MSGAPTAGAALMLCAATAVLLSARSGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAE 60  
 RTRSQLSALERRLSACGSACQGTGSTDPLAPESRVDPEVLHSLQTQLKAQNSRIQQLF 120  
 HKVAQQQRHLEKQHLRIQLQSQFGLLDHKHLDHEVAKPARRKRLPEMAQPVDPAHNVSR 180  
 LHRGWVFGTCSHNSNLNGQYFRSIPQQRQKLKKGIFWKTWRGRYYPLQATTMLIQPMAAEA 240  
 AS 242 (SEQ ID NO:51)

## Figure 21. Nucleotide and Protein Sequences For CG57051-05.

Nucleotide sequence encoding the Angiopoietin-like protein, CG57051-05.

>CG57051-05  
 CTTCTGCTCCAGTCTCGCACCTGGAACCCCAACGTCCCCGAGAGTCCCCGAATCCCCGC 60  
 TCCCAGGCTACCTAAGAGGATGAGCGGCGCTCCGACGGCCGGGCGAGCCCTGATGCTCTG 120  
 CGCCGCCACCGCCGTGCTACTGAGCGCTCAGGGCGGACCCGTGCAGTCCAAGTCGCCCGC 180  
 CTTTGGCTCCTGGGACGAGATGAATGTCTTGGCGCACGGACTCCTGCAGCTCGGCCAGGG 240  
 GCTGCGCGAACACGCGGAGCGCACCCGAGTCAGCTGAGCGCGCTGGAGCGGCGCCTGAG 300  
 CGCGTGCGGGTCCGCTGT CAGGGAACCGAGGGGTCCACCGACCTCCCGTTAGCCCCCTGA 360  
 GAGCCGGGTGGACCTGAGGTCTT CACAGCCTGCAGACACA ACTCAAGGCTCAGAACAG 420  
 CAGGATCCAGCAACTCTTCCACAAGGTGGCCCAGCAGCAGCGGCACCTGGAGAAGCAGCA 480  
 CCTGCGAATTCAGCATCTGCAAAGCCAGTTTGGCCTCCTGGACCAACAAGCACCTAGACCA 540  
 TGAGGGTGGCAAGCCTGCCGAAGAAAGAGGCTGCCCGAGATGGCCCAGCCAGTTGACCC 600  
 GGCTCACAATGTCAGCCGCTGCACCATGGAGGCTGGACAGTAATTCAGAGGCGCCACGA 660  
 TGGCTCAGTGGACTTCAACCGGCCCTGGGAAGCCTACAAGCGGGGTTTGGGGATCCCCA 720  
 CGGCGAGTTCTGGCTGGGTCTGGAGAAGGTGCATAGCATCATGGGGGACCGCAACAGCCG 780  
 CCTGGCCGTGCAGCTGCGGACTGGGATGGCAACGCCGAGTTGCTGCAGTTCTCCGTGCA 840  
 CCTGGGTGGCGAGGACACGGCCTATAGCCTGCAGCTCACTGCACCCGTGGCCGGCCAGCT 900

GGGCGCCACCACCGTCCCAACCCAGCGGCCTCTCCGTACCCTTCTCCACTTGGGACCAGGA 960  
 TCACGACCTCCGCAGGGACAAGAACTGCGCCAAGAGCCTCTCTGGAGGCTGGTGGTTTGG 1020  
 CACCTGCAGCCATTCACACCTCAACCGCCAGTACTTCCGTCCATCCCACAGCAGCGGCA 1080  
 GAAGCTTAAGAAGGGAATCTTCTGGAAGACCTGGCGGGCCGCTACTACCGCTGCAGGC 1140  
 CACCACCATGTTGATCCAGCCCATGGCAGCAGAGGCAGCCTCCTAGCGTCTGGCTGGGC 1200  
 CTGGTCCCAGGCCACGAAAGAGGTGACTCTTGGCTCTG 1239 (SEQ ID NO:52)

Protein sequence for Angiopoietin-like protein, CG57051-05.

>CG57051-05  
 MSGAPTAGAALMLCAATAVLLSAQGGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAE 60  
 RTRSQLSALERRLSACGSACQGTGSTDLPLAPESRVDPEVLHSLQTQLKAQNSRIQQLF 120  
 HKVAQQQRHLEKQHLRIQHLQSQFGLLDHKHLDHEGGKPARRKRLPEMAQPVDPAHNVSR 180  
 LHHGGWTVIQRRHDGSDFNRPWEAYKAGFGDPHGEFWLGLKVSIMGDRNSRLAVQLR 240  
 DWDGNAELLQFSVHLGGEDTAYSLQLTAPVAGQLGATTVPSPGLSVFPSTWDQDHLRRD 300  
 KNCAKSLSGGWVFGTCSHNSNLNGQYFRSIPQQRQKLKKGIFWKTRGRYYPQLQATTMLIQ 360  
 PMAAEAS 368 (SEQ ID NO:53)

Figure 22. Nucleotide and Protein Sequences For CG57051-02.

Nucleotide sequence encoding the Angiopoietin-like protein of the invention.

>CG57051\_02  
 TGCGGATCCTCACACGACTGTGATCCGATTCTTCCAGCGGCTTCTGCAACCAAGCGGGT 60  
 CTTACCCCGGTCTCCGCGTCTCCAGTCTTCGACCTGGAACCCCAACGTCCCCGAGAG 120  
 TCCCCGAATCCCCCGTCCCAAGGTACCTAAGAGGATGAGCGGTGCTCCGACGGCCGGGGC 180  
 AGCCCTGATGCTCTGCGCCGCCACCGCCGTGCTACTGAGCGCTAGATCTGGACCCGTGCA 240  
 GTCCAAGTCGCGCGCTTTGCGTCTTGGGACGAGATGAATGTCTGGCGCACGGACTCCT 300  
 GCAGCTCGGCCAGGGGTGCGCGAACACGCGGAGCGCACCCGAGTCAGCTGAGCGCGCT 360  
 GGAGCGGCGCCTGAGCGCGTGCCTGCGGCTCCGCTGTACAGGAACCGAGGGTCCACCGACT 420  
 CCCGTTAGCCCCCTGAGAGCCGGGTGGACCTGAGGTCTTACAGCCTGCAGACACAACCT 480  
 CAAGGCTCAGAACAGCAGGATCCAGCAACTCTTCCACAAGGTGGCCAGCAGCAGCGGCA 540  
 CCTGGAGAAGCAGACCTGCGAATTCAGCATCTGCAAAGCCAGTTTGGCCTCCTGGACCA 600  
 CAAGCACCTAGACCATGAGGTGGCCAAACCTGCCCGAAGAAAGAGGCTGCCCGAGATGGC 660  
 CCAGCCAGTTGACCCGGCTCACAAATGTACGCCGCTGCACCATGGAGGCTGGACAGTAAT 720  
 TCAGAGGCGCCACGATGGCTCAATGGACTTCAACCGGCCCTGGGAAGCCTACAAGGCGGG 780  
 GTTTGGGGATCCCCACGCGAGTTTGGCTGGGTCTGGAGAAGGTGCATAGCATCACGGG 840  
 GGACCGCAACAGCCGCTGGCCGTGCGAGTGGGGACTGGGATGGCAACGCCGAGTTGCT 900  
 GCAGTTCTCCGTGACCTGGGTGGCGAGGACACGGCCTATAGCCTGCAGCTCACTGCACC 960  
 CGTGGCCGCGCAGCTGGGCGCCACCACCGTCCCACCCAGCGCCTCTCCGTACCCTTCTC 1020  
 CACTTGGGACCAGGATCAGACCTCCGCAGGGACAAGAACTGCGCAAGAGCCTCTCTGC 1080  
 CCCATCGGTGGCTCAAAGACCTGACCATGTTCCCTCTCCCTGACCCCGGCAGGAGGCTG 1140  
 GTGGTTTGGCACCTGCAGCCATTCCAACCTCAACGCCAGTACTTCCGCTCCATCCCACA 1200  
 GCAGCGGCAGAAAGCTTAAGAAGGGAATCTTCTGGAAGACCTGGCGGGGCGCTACTACCC 1260  
 GCTGCAGGCCACCACCATGTTGATCCAGCCCATGGCAGCAGAGGCAGCCTCCTAG 1315  
 (SEQ ID NO:54)

Protein sequence for CG57051-02.

>CG57051\_02  
 MSGAPTAGAALMLCAATAVLLSARSGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAE 60  
 RTRSQLSALERRLSACGSACQGTGSTDLPLAPESRVDPEVLHSLQTQLKAQNSRIQQLF 120  
 HKVAQQQRHLEKQHLRIQHLQSQFGLLDHKHLDHEVAKPARRKRLPEMAQPVDPAHNVSR 180  
 LHHGGWTVIQRRHDGSDFNRPWEAYKAGFGDPHGEFWLGLKVSITGDRNSRLAVQLR 240  
 DWDGNAELLQFSVHLGGEDTAYSLQLTAPVAGQLGATTVPSPGLSVFPSTWDQDHLRRD 300  
 KNCAKSLSAPVAQRPDHVPSPPTPAGGWVFGTCSHNSNLNGQYFRSIPQQRQKLKKGIFW 360  
 KTRGRYYPQLQATTMLIQPMAAEAS 386 (SEQ ID NO:55)

**Figure 23. Nucleotide and Protein Sequences For CG57051-03.**

Nucleotide sequence encoding the Angiopoietin-like protein, CG57051-03.

```
>CG57051-03
CCCCGAGAGTCCCCGAATCCCCGCTCCCAGGCTACCTAAGAGGATGAGCGGTGCTCCGAC    60
GGCCGGGGCAGCCCTGATGCTCTGCGCCGCCACCGCGTGCTACTGAGCGCTCAGGGCGG    120
ACCCGTGCAGTCCAAGTCGCCGCGCTTTGCGTCTGGGACGAGATGAATGTCTTGGCGCA    180
CGGACTCCTGCAGCTCGGCCAGGGGCTGCGCGAACACGCGGAGCGCACCCGAGTCAGCT    240
GAGCGCGCTGGAGCGGCGCCTGAGCGCGTGCGGGTCCGCCTGTCTAGGGAACCGAGGGGTC    300
CACCGACCTCCCGTTAGCCCTGAGAGCCGGGTGGACCCTGAGGTCTTTCACAGCCTGCA    360
GACACAATCAAGGCTCAGAACAGCAGGATCCAGCAACTCTTCCACAAGGTGGCCAGCA    420
GCAGCGGCACCTGGAGAAGCAGCACCTGCGAATTCAGCATCTGCAAAGCCAGTTTGGCCT    480
CCTGGACCACAAGCACCTAGACCATGAGGTGGCCAAAGCCTGCCCGAAGAAAGAGGCTGCC    540
CGAGATGGCCAGCCAGTTGACCCGGCTCACAATGTCTAGCCGCTGCACCATGGAGGCTG    600
GACAGTAATTCAGAGGCGCCACGATGGCTCAGTGGACTTCAACCGGCCCTGGGAAGCCTA    660
CAAGGCGGGGTTTGGGGATCCCCACGGCGAGTTCTGGCTGGGTCTGGAGAAGGTCCATAG    720
CATCACGGGGGACCGCAACAGCCGCTGGCCGTGTCAGCTGCGGGACTGGGATGACAACGC    780
CGAGTTGCTGCAGTTCTCCGTGCACCTGGGTGGCGAGGACACGGCCTATAGCCTGCAGCT    840
CACTGCACCCGTGGCCGCGCCAGCTGGCGGCCACCGTCCACCCAGCGGCCTCTCCGT    900
ACCCTTCCCCACTTGGGACCAGGATCACGACCTCCGCAGGGACAAGAAGTGCGCCAAGAG    960
CCTCTCTGGAGGCTGGTGGTTTGGCACCTGCAGCCATTCCAACCTCAACGGCCAGTACTT    1020
CCGCTCCATCCCACAGCAGCGGCAGAAGCTTAAGAAGGGAATCTTCTGGAAGACCTGGCG    1080
GGGCCGCTACTACCCGCTGCAGGCCACCACATGTTGATCCAGCCCATGGCAGCAGAGGC    1140
AGCCTCCTAG    1150 (SEQ ID NO:56)
```

Protein sequence for CG57051-03.

```
>CG57051-03
MSGAPTAGAALMLCAATAVLLSAQGGPVQSKSPRFASWDEMNVLAHGLLQLGQGLREHAE    60
RTRSQLSALERRLSACGSACQTEGSTDLPLAPESRVDPEVLHSLQTQLKAQNSRIQQLF    120
HKVAQQQRHLEKQHLRIQHLQSQFGLLDHKHLDHEVAKPARRKRLPEMAQPVDPAHNVSR    180
LHHGGWTVIQRRHDGSVDFNRPWEAYKAGFGDPHGEFVLGLEKVHSITGDRNSRLAVQLR    240
DWDDNAELLQFSVHLGGEDTAYSLQLTAPVAGQLGATTVPFSGLSVPFPTWDQDHLRRD    300
KNCAKSLSGGWWFGTCSHSNLNGQYFRSIPQQRQKLKKGIFWKTWRGRYYPLQATTMLIQ    360
PMAAEAAAS    368 (SEQ ID NO:57)
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